

Serial No. **10/539,768**

Docket No. **HI-0185**

Amendment dated May 12, 2008

Reply to Office Action of January 10, 2008

### **REMARKS/ARGUMENTS**

Claims 1-15 and 17 are pending. By this Amendment, claims 1, 3-6, 9-10, 12, and 17 are amended, and claim 16 is canceled without prejudice or disclaimer. No new matter is added. Support for the claims can be found throughout the specification, including the original claims, and the drawings. Reconsideration in view of the above amendments and following remarks is respectfully requested.

The Examiner is thanked for the courtesies extended to Applicants' representative at the April 8, 2008 personal interview. The points discussed are incorporated herein.

Entry of the amended claims is proper under 37 C.F.R. §1.116 since the amendments: (1) place the application in condition for allowance for the reasons discussed herein; (2) do not raise any new issues requiring further search and/or consideration since the amendments amplify issues previously discussed throughout prosecution without incorporating additional subject matter; (3) satisfy a requirement of form asserted in the previous Office Action; and/or (4) place the application in better form for appeal, if necessary. Entry is thus requested.

The Office Action rejected claims 1-17 under 35 U.S.C. §103(a) over Huang et al. (hereinafter "Huang"), U.S. Patent No. 7,120,702 in view of Smith et al. (hereinafter "Smith"), U.S. Patent No. 6,970,602. Claim 17 has been canceled. The rejection is respectfully traversed in so far as it applies to the pending claims.

Independent claims 1 and 3 have been amended as discussed at the personal interview to more clearly recite the interconnection between the various elements/steps and the flow of information. Further, these claims have also been amended to correspond the element name and functionality.

Independent claim 1, as amended, recites a web content converting system for converting a large display screen web document into a small display screen web document, the system comprising a preprocessor that standardizes a non-standard web document having an erroneous tag to output a standardized web document in a data format suitable for analysis; a client profile analyzer that extracts from the web document and analyzes client information; a structure analyzer that receives and analyzes the web document standardized in the preprocessor to sort the web document to a content unit piece according to a document analysis algorithm; an image converter that extracts information on an image encoding/decoding procedure and an image size of the web document, in order to display the image; a component block extractor that groups each of the content unit pieces with similar groups of content unit pieces within a range not exceeding a maximal width by using an attribution value of the respective content unit piece and client performance information, to generate component blocks; a component block categorizer that categorizes each of the component blocks generated by the component block extractor as either index or body content portions in accordance with a content characteristic; an index generator that extracts information on an image or text index from the component blocks

categorized as index content portions, and generates a script file and an additional tag collection to express the extracted information; an auditory generator that converts a text-centered body content block into an auditory language to perform an auditory supporting function; and a HyperText Markup Language (HTML) generator that generates, rearranges, and reconstructs content object elements according to a document pattern to generate a small display screen web document.

Independent claim 3, as amended, recites a web content converting method for converting a large display screen web document into a small display screen web document, the method comprising standardizing a non-standard web document including an erroneous tag to output a standardized web document in a data format suitable for analysis; analyzing a tag according to a document analysis algorithm to set the web document into content unit pieces; grouping each of the content unit pieces with similar groups of content unit pieces within a range not exceeding a maximal width by using an attribution value of the respective content unit piece and client performance information, to generate component blocks; categorizing each of the generated component blocks as either index or body content portions in accordance with a content characteristic; extracting information on an image or text index from the component blocks categorized as index content portions, and generating a script file and an additional tag collection to express the extracted information; converting a text-centered body content block into an auditory markup language to perform an auditory supporting function; and generating,

rearranging, and reconstructing content object elements according to a document pattern to generate a small display screen web document.

Regarding independent claims 1 and 3, the Office Action argues that Huang discloses the claimed preprocessor, client profile analyzer, structure analyzer, index generator, and HyperText Markup Language (HTML) generator. The Office Action acknowledges that Huang does not disclose the claimed image converter, component block extractor, component block categorizer, and voice markup generator. However, the Office Action then asserts that Smith teaches these features and concludes that “[i]t would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Huang’s invention by transcoding the web content to small display, as taught by Smith.” However, neither Huang nor Smith, taken alone or in combination, discloses or suggests all of the claimed features of independent claims 1 and 3, or the claimed combination.

More particularly, as discussed at the personal interview, regarding the claimed preprocessor of independent claim 1, Huang fails to disclose or suggest a preprocessor that outputs a standardized web document in a data format suitable for analysis. Huang just broadly discloses a transcoder that transforms data into a standardized form and an adapter capable of modifying the standardized data into a compatible form for display by the client device. See the Abstract, lines 10-13 of Huang. That is, Huang fails to disclose or suggest an intermediate operation for a small display which standardizes a non-standard web document having an

erroneous tag to output a standardized web document in a data format suitable for analysis.

Huang also fails to disclose or suggest the similar method features of independent claim 3.

Further, regarding the claimed structure analyzer of independent claim 1, Huang just discloses analyzing content of multiple related web pages, and a rule to extract data from the web pages and to transform the web page into a standardized form. Thus, Huang fails to disclose or suggest a structure analyzer that sorts the standardized web document to a content unit piece.

Huang also fails to disclose or suggest the similar method features of independent claim 3.

Additionally, regarding the claimed component extractor of independent claim 1, Smith fails to disclose or suggest a component block extractor that groups each of the content unit pieces with similar groups of content unit pieces within a range not exceeding a maximal width by using an attribution value of the respective content unit piece and the client performance information, to generate component blocks. Smith also fails to disclose or suggest the similar method features of independent claim 3.

Regarding the claimed component block categorizer of independent claim 1, Smith fails to disclose or suggest any component blocks, and thus, does not disclose or suggest a component block categorizer that categorizes each of the component blocks generated by the component block extractor as either index or body content portions in accordance with a content characteristic. Smith also fails to disclose or suggest the similar method features of independent claim 3.

Regarding the claimed index generator of independent claim 1, as set forth above, Smith fails to disclose or suggest any component blocks, and thus, does not disclose or suggest an index generator that extracts information on an image or text index from the component blocks categorized as index content portions, and generates a script file and an additional tag collection to express the extracted information. Smith also fails to disclose or suggest the similar method features of independent claim 3.

Accordingly, the rejection of independent claims 1 and 3 over Huang and Smith should be withdrawn. Dependent claims 2, and 4-8 are allowable over Huang and Smith at least for the reasons discussed above with respect to independent claims 1 and 3, from which they respectively depend, as well as for their added features.

Independent claim 9 has been amended to recite, *inter alia*, a web contents transcoding system configured to process contents provided by the web server for a first display performance to a second reduced display performance according to identified unit pieces of the transmitted contents, wherein the web contents transcoding system performs grouping of each of content unit pieces of the contents with similar groups of content unit pieces within a range not exceeding a maximal width by using an attribution value of the respective content unit piece and client performance information, to generate component blocks and categorizes each of the component blocks generate by the component block extractor as either index or body content portions in accordance with a content characteristic. Independent claim 10 has been amended to

recite, *inter alia*, a web content transcoding system processor configured to process the contents transmitted by the web server for a first display performance to a second reduced display performance of a portable terminal according to identified unit pieces of the transmitted contents, wherein the web content transcoding system processor performs grouping of each of the content unit pieces of the contents with similar groups of content unit pieces within a range not exceeding a maximal width by using an attribution value of the respective content unit piece and client performance information, to generate component blocks and categorize each of the component blocks generated by the component block extractor as either index or body content portions in accordance with a content characteristic; and a communication port configured to transmit the processed contents to the portable terminal. Independent claim 12 has been amended to recite, *inter alia*, wherein the generating further comprises categorizing the grouped content unit pieces into one of an index and body content, and extracting the grouped content unit pieces in accordance with the categorized index and body content. As set forth above, Huang and Smith do not disclose or suggest such features. Further Huang and Smith, taken alone or in combination, fail to disclose or suggest the respective claimed combinations of independent claims 9, 10, and 12.

Accordingly, the rejection of independent claims 9, 10, and 12 over Huang and Smith should be withdrawn. Dependent claims 11, 13-15, and 17 are allowable over Huang and Smith at least for the reasons discussed above with respect to independent claims 10 and 12, from

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which they respectively depend, as well as for their added features.

### **CONCLUSION**

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney at the telephone number listed below.

In view of the foregoing amendments and remarks, it is respectfully submitted that this application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited.



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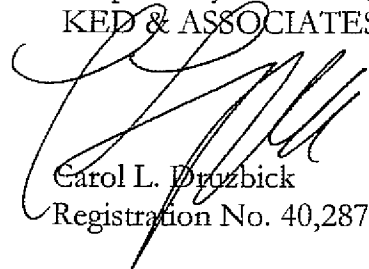
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To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,  
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